Pramati
Server 3.0

Installation Guide

PRAMATI

Pramati Server 3.0 Installation Guide
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Contents

1 *Preface*

This document gives you information about installing Server on Unix and Windows.

Document Conventions

The following conventions are commonly used in this guide and indicate:

Convention	Used in place of
Server	Pramati Server
JMS Server	In-built Pramati Message Server
Item A >Item B	Signifies menu and sub-menu selections
Code	The font used for writing code snippets
Bold	Words in bold represent emphasis
Notes	Words in Italics used for writing notes

Contact Information

For specific information on this release of the product, please refer to the Release Notes. For additional help on installation and troubleshooting, consult the Frequently Answered Questions (FAQ) on the Website.

2 *Installing Server*

This document gives you information about installing Server on Unix and Windows. Server installs through a Java-based InstallShield™ distribution. This document contains information about:

- System Requirements
- Installation Scenarios
- Installing Server on Solaris and Linux
- Installing Server on Windows
- Installing Deploy Tool on Unix and Windows
- Installing Message Server on Unix and Windows
- Verifying Installation on Solaris and Linux
- Verifying Installation on Windows
- Silent Installation
- Installing Server with the Command Line option
- Uninstalling Server on Unix and Windows
- Installation Directory Structure

System Requirements

Prior to installing Server, check:

- Hardware Requirements
- Operating Systems
- Software Requirements
- Database Requirements

Hardware Requirements

The hardware requirements are:

- Any hardware platform that supports Java with minimum 128 MB RAM (256 recommended).

- Minimum 100 MB hard disk space during installation. Also, make sure that the temporary directory set by the Environment Variable TMP has a minimum disk space of 100 MB.

Operating Systems

You can install Server on any platform that supports JDK 1.3.1_01. It has been tested on:

- Windows 2000™Professional and Server

- Windows NT™ 4 with Service Pack 5 or higher

- RedHat Linux™ 6.2

- Sun Solaris™ 7 and 8

Server installs through InstallShield version 4.01, which does not support SCO and BSD variants of Unix.

JDK Requirements

Server requires JDK™1.3.1_01 to run. To verify the JDK version on your machine, at the command prompt, enter java –version. The value that is returned is the JDK version on your machine.

Web Browser Requirements

The Web-based Pramati Server Management Console has been tested to work with Internet Explorer 5.5 or above, Netscape 4.7 or above, Opera 5.1, or any other browser that supports HTML 3.2.

JDBC Requirements

Server supports JDBC 2.0 Standard Extension drivers. These drivers are supplied by respective database vendors. The appropriate JDBC driver must be located in the directory jdk1.3.1_01/jre/lib/ext, where jdk1.3.1_01 is the JDK installation directory on your machine.

A complete list of JDBC drivers is available in http://industry.java.sun.com/products/jdbc/drivers. Here is the list of JDBC drivers Pramati Server 3.0 has been tested on:

Oracle 8i
Oracle Thin Driver Version 8.1.6.0.1
Merant DataDirect Oracle Driver 2.2
Informix 7.30 TC3
Informix JDBC Driver for Informix Dynamic Server 2.10.JC1N361
Merant DataDirect Informix Driver 2.2
SQL Server 7.0
Merant DataDirect SQL Server Driver 2.2
JTurbo SQL Server Driver 2.0
i-net Sprinta 4.15 SQL Server Driver
Cloudscape 4.0
Cloudscape 4.0 JDBC Driver 4.0
Cloudscape 4.0 RMI JDBC Driver 4.0

Database Requirements

Data resource connections can be made with any RDBMS that has a JDBC 2.0 Standard Extension driver. The Server have been tested with the following database servers:

- Oracle™ 8i
- IBM Informix™ 7.3
- MS-SQL™ 7.0
- Informix™ Cloudscape 4.0

For a complete Platform Certification Report, refer the appendix of this document. For exact information on the current release of the product, read the Release Notes that is with your installation or on the Website.

Installation Scenarios

Depending on your requirement, you may choose from one of the following installation scenarios:

Scenario A Pramati Server, embedded JMS and Deploy Tool on the same host machine.

Scenario B Deploy Tool installed separately for remote deployments on multiple Pramati Servers installed across the network.

Scenario C Pramati Message Server installed separately and available as a messaging node for multiple application servers communicating using Java Message Service.

Scenarios may involve firewalls or other network constraints. For further help, refer the online help available with Pramati Server Management Console.

Installing Server on Solaris and Linux

To install Server:

1   Check the System Requirements.
2   Ensure you have logged in as any user.
3   Download PServer30.jar from http://www.pramati.com to your local directory. If you are installing from the CD, insert the CD in the CD-ROM drive. Mount the CD ROM drive, if required.
4   From the installation directory, run java -jar PServer30.jar to start the installation wizard.
5   Click next to proceed to the license agreement. Read the agreement and, if you agree with the terms, select "I accept the terms of license agreement" and click Next.

6   Specify the directory where you want to install the selected components. You must have *write* permissions on this directory.

7   Specify the path of JDK1.3.1_01 installed on your machine. Specifying an incorrect path will halt the installation.

8   Enter the Licensee name and the License key.

     If you are downloading the product from the Website, an evaluation license key is available at the download page. If you are installing from the CD, the license key is on the license certificate that ships with the product. For more on licensing, contact license@pramati.com.

9   Click Next. The installation process starts, extracting the components under the specified installation directory. Click Finish.

The Server is installed. You can now verify the installation.

Installing Server on Windows

To install Server:

1   Check System Requirements.

2   Log in as an user with administration privileges. You may need administration privileges on certain Windows platforms to create the application shortcuts.

3   If you are installing from CD, insert the CD in the CD-ROM drive.

4   Select the installation file PServer30.exe from Windows Explorer and double click on the file to start the installation wizard.

5   Click on Next to proceed to the license agreement. Read the agreement and, if you agree with the terms, select "I accept the terms of license agreement" and click Next.

6   Next, specify the directory for the installation.

7   Specify the path of JDK1.3.1_01 installed on the machine. Specifying an incorrect path will halt the installation.

8   Enter the Licensee name and the License key.

If you are downloading the product from the Website, an evaluation license key is available at the download page. If you are installing from the CD, the license key is on the license certificate that ships with the product. For more on licensing, contact license@pramati.com.

9   Click Next. The installation process starts, extracting server components under the installation directory. Click Finish.

The installation process is complete. All components are installed based on your installation options and the required shortcuts are created in the Program menu. You can now verify your installation.

Installing Deploy Tool on Unix and Windows

To install the Deploy Tool:

1   Check the system requirements.

2   Log in as an user with administration privileges.

You need to have administration privileges for the application shortcuts to be created, on Windows.

3   If you are installing from the CD, insert the CD in the CD-ROM drive. If required, mount the CD ROM drive on Unix.

4   Go to the directory where the installation file is located.

5   For Unix, enter java -jar Deploytool30.jar at the prompt.

6   For Windows, double click Deploytool30.exe in Windows Explorer

The installation wizard starts and the license agreement appears.

7   Read the agreement and, if you agree with the terms, select "I accept the terms of license agreement" and click Next.

8   Specify the directory where you want to install the Deploy Tool.
Note: For Unix, you must have write permissions on this directory.

9   Specify the path of JDK1.3.1_01 installed on the machine.

    If you specify an incorrect path, you cannot proceed with the installation.

10   Enter the Licensee name and the License key.

    If you download the files from the web site, the license key is mailed to the e-mail address specified by you in the download form. However, if you are installing from the CD, the license key is provided with the CD package. For more information on licensing, send a mail to license@pramati.com.

11   Click Next.

    The installation process starts.

12   Click Finish.

The installation process is complete. The standalone Deploy Tool is installed on your machine. You can now verify your installation.

Installing Message Server on Unix and Windows

To install the Message Server:

1   Check the system requirements.

2   Log in as an user with administration privileges.

    You need to have administration privileges for the application shortcuts to be created, on Windows.

3   If you are installing from the CD, insert the CD in the CD-ROM drive. If required, mount the CD ROM drive on Unix.

4   Go to the directory where the installation file is located.

5   For Unix, enter java -jar PMsgServer30.jar at the prompt.

6   For Windows, double click PMsgServer30.exe in Windows Explorer.

    The installation wizard starts and the license agreement appears.

7   Read the agreement and, if you agree with the terms, select "I accept the terms of license agreement" and click Next.

8   Specify the directory where you want to install the Message Server.

     You must have *write* permissions on this directory.

9   Specify the path of JDK1.3.1_01 installed on the machine.

     If you specify an incorrect path, you cannot proceed with the installation.

10   Enter the Licensee name and the License key.

     If you download the files from the web site, the license key is mailed to the e-mail address specified by you in the download form. However, if you are installing from the CD, the license key is provided with the CD package. For more information on licensing, send a mail to license@pramati.com.

11   Click Next.

     The installation process starts.

12   Click Finish.

The installation process is complete. The standalone Message Server is installed on your machine. You can now verify your installation.

Verifying Installation on Solaris and Linux

Server

To verify the Server installation:

1   At shell prompt, change directory to <install dir>/server/bin.

2   Run the shell script runstartupsvc.sh. This starts the Pramati Administration Service on port 4748. The Service opens in a Web browser.

3   Login to the Service by entering the login and password. You can use the default entries, root and pramati. Click Login.

4   The Administration Service main page appears. It shows the default Server auto-configured by the Service on your machine (local host).

5   Clicking on Start and Connect starts and connects to the Server.

Deploy Tool

To begin using the Deploy Tool, you must first start a Server on the network. Then:

1   At shell prompt, change directory to <install dir>/server/deploytool (if you have installed Server with the Deploy Tool .

2   At shell prompt, change directory to <Deploy Tool installation directory>\deploytool\bin (if you have installed only the Deploy Tool)

3   Run the shell script rundeploytool.sh.

4   Deploy Tool starts by prompting for a Server instance to connect to. Enter the configuration details of default Server:
   Server IP Localhost
   Naming port 9191
   User name root
   Password pramati
   Realm system

5   Deploy Tool connects to default Server and appears. The tool has a swing-based UI and allows you to configure properties of Java Archives and Web Archives for use with Pramati Server.

6   Exit Deploy Tool by selecting Archive > Exit from the menu.

Pramati Message Server

To verify installation of Pramati Message Server:

1   At shell prompt, change directory to <Server installation directory>\server\bin (if you have installed Server with JMS)

2   At shell prompt, change directory to <Message Server installation directory>\jms\bin (if you have installed only the Message Server)

3   If you have installed only the Message Server, run runjms.sh file.

4   If you have installed Server with JMS, enter `runserver -startjms`

     This starts Message Server and opens a standard Server prompt.

5   To stop Message Server, run shutdown at the prompt. This stops Message Server and returns control to the shell prompt.

Verifying Installation on Windows

Server

To verify Server installation:

1   Look for the following shorcuts from the Windows Start menu:
Programs > Pramati 3.0 > Server Administration
Programs > Pramati 3.0 > Deploy Tool
Programs > Pramati 3.0 > Default Server
Programs > Pramati 3.0 > Server Documentation

2   Select Programs > Pramati 3.0 > Server Administration. This starts the Pramati Administration Service on port 4748. The Service opens in a Web browser.

3   Login to the Service by entering the login and password. You can use the default entries, root and pramati. Click on login.

4   The Administration Service main page appears. It shows the default Server auto-configured by the Service on your machine (local host).

5   Clicking on Start and Connect starts and connects to the Server.

Deploy Tool

To begin using the Deploy Tool, you must first start a Server on the network. Then:

1   Select the shortcut Programs > Pramati 3.0 > Deploy Tool.

2   Deploy Tool starts by prompting for a Server instance to connect to. Enter the configuration details of default Server:

Server IP Localhost
Naming port 9191
User name root
Password pramati
Realm system

3   The Connect to Server dialog appears. Enter the default Server properties.

4   Deploy Tool starts and connects to the Server.

5   Exit Deploy Tool by selecting Archive > Exit from the menu.

Pramati Message Server

To verify installation of Pramati Message Server:

1   At command prompt, change directory to <Server installation directory>\server\bin (if you have installed Server with JMS)

2   At command prompt, change directory to <Message Server installation directory>\jms\bin (if you have installed only the Message Server)

3   If you have installed only the Message Server, run runjms.bat file.

4   If you have installed Server with JMS, enter `runserver -startjms`

     This starts Message Server and opens a standard Server prompt.

5   To stop Message Server, run shutdown at the prompt. This stops the Message Server and returns control to the command prompt.

Installing Server in-process (using XML)

To install Server silently, save the file PServer3.0.jar on your local machine on both, Windows and Unix. Silent installation is especially useful in scenarios where the Server is being installed inside another application, and shipped to end users.

There are two steps involved in silently installing Server - Generating an XML file, and then using this file to silently install Server. Follow the given instructions to generate the XML file:

1   Download the installation file PServer30.jar from http://www.pramati.com to your local directory.

2   Log in as an user with administration privileges.

3   If you are installing from the CD, insert the CD in the CD-ROM drive. Mount the CD ROM drive, if required.

4   Go to directory where the installation file is located.

5   The XML file can be either generated using -genXml option, at the command prompt or by manually creating the file and saving it in the appropriate location.

6   To use the command prompt option, enter `java -jar PServer30.jar -genXml stu_template.xml` at the command prompt, where stu_template is the name of the XML file. This pops up the Installation Wizard, and the user enters all the required fields in the panels that come up. After the installation is complete, the XML file is generated in the current directory.

7   To generate the XML file manually, copy the given sample lines of code in the template XML file, edit is with your values, and then save it in the current directory.

```xml
<AutomatedInstallation langpack="eng">
    <com.pramati.action.CDKeyPanelAction>
        <name>Mike</name>
        <value>1111111111111111</value>
    </com.pramati.action.CDKeyPanelAction>
    <com.pramati.action.TargetPanelAction>
        <installpath>c:\Pramati_Server</installpath>
        <javaHome>c:\jdk1.3.1</javaHome>
    </com.pramati.action.TargetPanelAction>
</AutomatedInstallation>
```

After generating the XML file, Server can be installed silently using this XML file. This method of installing is called Silent Mode. To install Server silently, follow the given instructions:

1   Enter `java -jar PServer30.jar -silent stu_template.xml` at the command prompt. Here stu_template is the name of the XML file, which was generated earlier.

2   Pressing the Enter key runs the automated installation with all the default values in the XML file, and the user is not prompted for any details.

To get help on the commands that can be used to install Server, enter java -jar PServer30.jar -help at the command prompt.

Installing Server with the Command Line option

To install Server with the command line option, save the file PServer3.0.jar on your local machine on both, Windows and Unix. Follow the given instructions to install Server this way:

1   Download the installation file PServer30.jar from http://www.pramati.com to your local directory.

2   Log in as an user with administration privileges.

3   If you are installing from the CD, insert the CD in the CD-ROM drive. Mount the CD ROM drive, if required.

4   Go to directory where the installation file is located.

5   At the command prompt, enter `java -jar PServer30.jar -cmdLine`. This prompts the user to enter the following details:
    - **Name** Enter your name and press the Enter key
    - **Key** Enter the valid license key and press the Enter key
    - **Installation Directory** Enter the directory where you want to install Server, and press the Enter key
    - **Java Home** Specify the path of JDK1.3.1_01 installed on the machine. Specifying an incorrect path will halt the installation.

- Pressing the Enter key starts running the automated installation. After the installation is complete, the message [Automated installation done] is displayed.

Uninstalling Server on Unix and Windows

To uninstall server:

1 Log in as any user.

2 Change directory to <install_dir>_uninst

3 Run java - jar uninstall.jar to start uninstalling Server.

4 The Uninstallation wizard appears. Follow the instructions.

5 Click Finish.

Server is uninstalled. You may have to manually remove some files and directories from the installation directory.

Installation Directory Structure

Directory	Description
/uninst	contains information required for uninstalling the Server
/server/dtds	document type descriptors used by various Server XML files
/server/add_ons	additional files or application required by the Server
/server/config	configuration and properties files used by the Server
/server/lib/ext	standard Java extension JARs
/server/lib/server	Server-specific JARs required by client programs
/server/im	images used by Pramati Server Management Console
/server/samples	Sample applications to run on the Server
/server/docs	documentation for the Server

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